

ABSTRACT OF THE DISCLOSURE

A signal evaluation method for detecting QRS complexes in electrocardiogram (ECG) signals comprises the following steps:

- 5 - sampling of the ECG signal (4) and conversion into discrete signal values ($x(n)$) in chronological order;
- comparing the signal values ($x_f(n)$, $x_{fq}(n)$) to a threshold function ($K(n)$) adaptively determined therefrom;
- determining a frequency number ($D(n)$) within a defined segment of
10 the consecutive signal values, by which signal values ($x_f(n)$, $x_{fq}(n)$) preferably fall short of the threshold function ($K(n)$);
- comparing the determined frequency number ($D(n)$) to a defined threshold (Θ), wherein an undershoot of the threshold (Θ) is significant for a presence of a QRS complex (5, 6, 7) in the defined segment of the
15 ECG signal (4).

- Fig. 2 -